

Amol Ramesh Mane
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Objective:

Aspiring Software Developer with strong foundations in programming, problem-solving, and full-stack development. Skilled in multiple programming languages, databases, and frameworks with hands-on experience through academic and industrial projects. Seeking an opportunity to apply technical expertise to build scalable and impactful software solutions.

Educational Qualification:

| Standard | Institute | Percentage | Class |
|----------|---------------------------------|------------|----------------|
| B.Tech | Dr.BATU, Lonere, Raigad | CGPA:7.29 | First Division |
| HSC | Dayanand Science College, Latur | 71.67 % | First Division |
| SSC | Deshikendra High School, Latur | 94.40 % | Distinction |

Professional Summary

- Experienced in application development using C, C++, Java.
- Hands-on expertise in **Linux System Programming** using C & C++, with exposure to low-level concepts like **Kernel Modules**.
- Proficient in **algorithm design and optimization**, ensuring efficient and scalable Solutions.
- Knowledgeable in **server-side web development** using Java (Spring Boot).
- Strong understanding of **Operating System internals**, system-level concepts, and performance tuning.
- Designed and implemented **7+ industry-oriented projects**, including full-stack, cryptography, and reusable libraries.
- Gained hands-on experience in **RESTful API development, database integration, and cross-platform programming**.
- Practical expertise in **encryption & system-level security** through projects like Secure File Transfer Simulation.
- Experienced in building both **console-based and GUI-based applications** to enhance user interaction.
- Familiar with **Agile, Waterfall, Incremental SDLC methodologies**, delivering structured and timely solutions.
- Active contributor on **GitHub** with well-documented repositories showcasing projects.

- **Strong analytical and problem-solving** skills with ability to quickly learn, adapt, and mentor peers in programming and project development.
- Experienced in writing **Shell Scripts**.
- Knowledge of **Swing & AWT API** integration implementation in java.

Technical Skills:

Programming Languages:

- **Procedural Language:** C
- **Object Oriented Programming:** C++
- **Virtual Machine based Programming:** Java

| | |
|----------------------------|--------------------------------------|
| Web Technologies: | HTML/HTML5, CSS2/CSS3 |
| IDE & Tools: | Visual Studio Code, Visual Studio |
| Web Servers: | Apache Tomcat 8.0.22 |
| Version Control: | GIT |
| Database: | SQL (oracle), MySQL, MongoDB (NoSQL) |
| Operating System: | Windows NT, Linux Distributions |
| Testing Techniques: | Unit Testing |
| Methodologies: | Agile, Incremental, Waterfall |

Technical Projects:

1. Customized Virtual File System (CVFS)

Technology: C Programming, OS Internals

 GitHub Repository: https://github.com/AmolMane30/Customized_Virtual_File_System

- Simulated Linux-like file system operations with a custom shell.
- Implemented system calls (open, read, write, lseek, delete).
- Gained hands-on understanding of inodes, file tables, and OS design.

2. Generalized Data Structures Library

Technology: C++

 GitHub Repository:

https://github.com/AmolMane30/Generalized_Data_Structures_Library

- Developed a reusable library of linear & non-linear data structures.
- Implemented stacks, queues, linked lists, BST, searching & sorting.
- Designed using templates for data type independence.

3. Customized Database Management System

Technology: Java

GitHub Repository:

https://github.com/AmolMane30/Customized_Database_Management_System

- Implements a Database Management System without using actual DBMS.
- Implemented own logic for all the SQL Queries.
- We can perform CRUD operations as well as Aggregate operations.
- Implemented Java's Collections Framework.
- Persist data between program runs using Serialization and Deserialization.

4. File Packer Unpacker

Technology: Java

GitHub Repository:

- Built a file archiving utility with integrated encryption/decryption.
- Implemented metadata preservation during packing/unpacking.
- Designed GUI using Swing for user-friendly interaction.

Extras: 1] Solved more than 225 problems on CodeChef /GFG /LeetCode platforms.

2] Have multitasking skills as well as good typing speed of more than 60 Words Per Minute (WPS).

Profiles

- **GitHub:** github.com/AmolMane30
- **LinkedIn:** [linkedin.com/in/amolmane30/](https://www.linkedin.com/in/amolmane30/)
- **Portfolio:** https://amolmane30.github.io/Amol_Portfolio/

Personal Information:

- Date of Birth: 30/01/2004
- Father's Name: Ramesh Mane
- Marital Status: Unmarried
- Nationality: Indian

The above-mentioned information is authentic to the best of my knowledge.

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